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Dahlquist

[11] Patent Number: **5,992,071**[45] Date of Patent: **Nov. 30, 1999**[54] **DISPLAY STAND AND METHOD**[75] Inventor: **Ake L. Dahlquist**, Dixon, Ill.[73] Assignee: **Sleepeck Printing Company**, Dixon, Ill.[21] Appl. No.: **08/798,843**[22] Filed: **Feb. 12, 1997**[51] Int. Cl.⁶ **G09F 1/00**; G09F 15/00; A47G 5/00[52] U.S. Cl. **40/610**; 40/124.09; 160/351

[58] Field of Search 40/124.01, 124.09, 40/606, 610, 539; 160/351

[56] **References Cited****U.S. PATENT DOCUMENTS**

1,052,187	2/1913	Stranders .	
1,195,527	8/1916	Stranders .	
1,207,604	12/1916	Morgan .	
1,684,244	9/1928	Richardson	40/539
2,366,099	12/1944	Gray et al. .	
2,804,199	8/1957	Essick .	
2,942,283	6/1960	Pitner	40/124.01
3,662,807	5/1972	Miller	160/351
4,290,763	9/1981	Hurst .	
4,503,101	3/1985	Bennett	40/124.1

5,160,022 11/1992 Mennella .
5,416,997 5/1995 Dymont et al. 40/610**FOREIGN PATENT DOCUMENTS**137930 1/1948 Australia 40/539
696391 8/1953 United Kingdom 40/539*Primary Examiner*—Anthony Knight*Assistant Examiner*—Marcus Dolce*Attorney, Agent, or Firm*—Ryndak & Lyerla[57] **ABSTRACT**

Disclosed herein is a stand-alone display device (**100, 200**) with one integral configuration capable of obtaining a flat configuration for efficient shipping and capable, without assembly, of achieving a deployed three-dimensional configuration. In the flat configuration, the display device (**100, 200**) is formed from two folded sheets adhesively secured or sandwiched between two unfolded sheets. To achieve the deployed configuration, the folded sheets are articulated (unfolded), resulting in folds in the previously unfolded sheets. In the deployed configuration, the display device is capable of supporting itself. The display device may be mass manufactured using printing press and inline finishing equipment, including plow folding stations, multiple glue application systems, a rotary cutter, and a delivery system.

28 Claims, 7 Drawing Sheets